

University of Pretoria Yearbook 2019

Process design 421 (NOP 421)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 32.00

Programmes [BEng Metallurgical Engineering](#)
[BEng Metallurgical Engineering Engage](#)

Prerequisites (NHM 322), (NMM 320), (NPM 321), (NVM 321)

Contact time 1 tutorial per week, 1 lecture per week

Language of tuition Module is presented in English

Department Materials Science and Metallurgical Engineering

Period of presentation Semester 2

Module content

Philosophy of design and the design process; phases of plant design and their interrelationships. Principles of project planning and management. Unit and process design, simulation, economic evaluation and optimising as applicable to the metallurgical industry. Execution of a process design project, submission of a report, oral presentations and construction of a scale model.

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